

## ABOUT US

Manara Works provides solutions and products of highest quality for Industrial and Commercial markets. We collaborate with world leading suppliers to provide solutions of highest quality and standards. Our professional team has extensive expertise in the various technologies related to the solutions we provide; applying best practices and methodologies they have been playing a strong consultative role, delivering superior services, demonstrating commitment and dedication. WE DELIVER RESULTS.

## VISION

Preferred supplier of world-class solutions and services within the oil & gas, water, energy and construction market.

# MISSION

Empower result oriented and talented team to deliver excellence and maintain a rewarding relation with partners and customers.

# VALUES



QUALITY RELIABILITY



SERVICE



PRICE

# MANARA SOLUTIONS





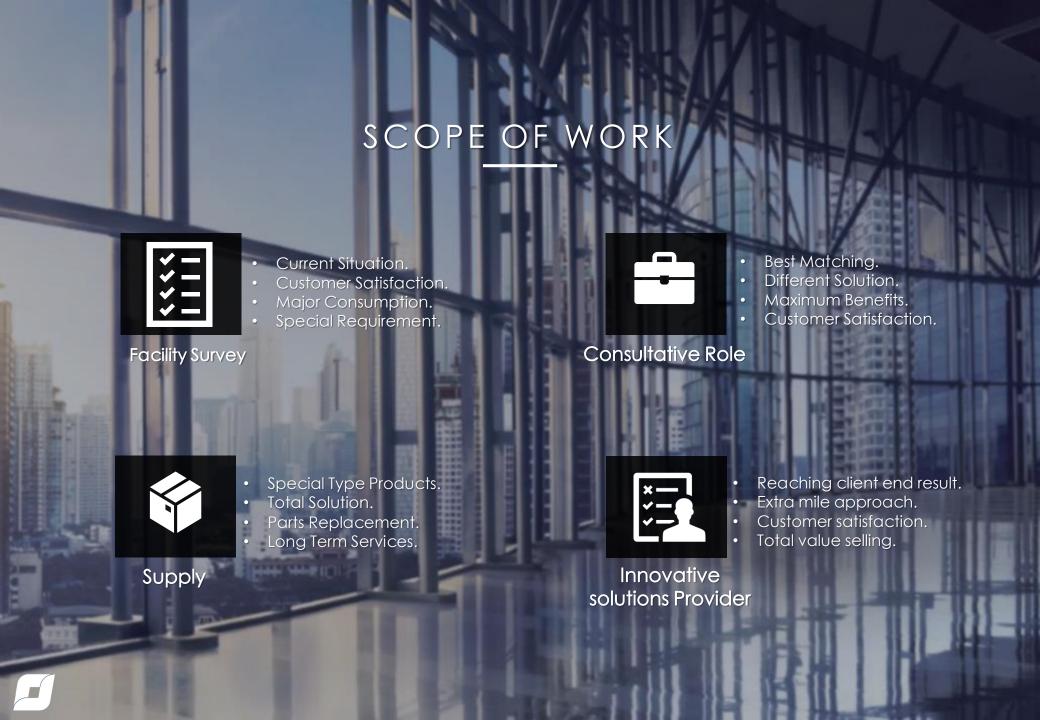














# OUTDOOR

Street Lights & Infrastructure

Car Parks

Pipelines

Sport Grounds

Gas Station

Industrial / Oil & Gas

+More

## INDOOR

Culture & Education

Offices

**Shopping Centre** 

Health Care

Industrial

Warehouses













## PRODUCTS FEATURES

Main Features

Save up to 80%

5 years' warranty

80,000 Lighting hours

Auto - Manual switch

Motion\ sound detector

Different Light Beam Angle

Wide range of color temperature

Input voltage: 90-305VAC 50-60HZ

Work temperature: - 40 ° C ~ 65 ° C



Dimming

Fire proof

No UV light

No RFI,EMI

**UL-** certified

Explosion proof

No heat generated

**Dust & Water Proof** 

Accept high humidity

**Top** Features







5-10 years warranty



No heat Generated



High safety factor



















# SOLAR & NANO

At the NANO-scale, things behave differently. And today the unique properties of various.

NANO materials are being used to increase the efficiency of tomorrow's renewable energy technology. Robin Wylie explores the many ways in which cuttingedge nanotechnology is already being used to improve energy sector.

## Nano.gov

U.S. National Nanotechnology Initiative

## Nanotechnology Signature Initiative\* Nanotechnology for Solar Energy Collection and Conversion

## Overview

Solar energy is a promising energy source that has the potential to reduce U.S. dependence on fossil fuels. New innovations and fundamental scientific breakthroughs are required, however, to accelerate the development of solar energy technologies that are economically competitive with conventional fossil fuels. Agencies participating in the NNI have identified a number of physical phenomena where nanotechnology may play a critical role in overcoming current performance barriers to substantially improve the collection and conversion of solar energy. Certain engineered nanomaterials and nanostructures have been shown to enhance the absorption of light, increase the conversion of light to electricity, and provide better thermal storage and transport. Nanostructured artificial photosynthetic systems mimicking those found in nature will be important for the conversion of solar energy into chemical fuels. A deeper theoretical understanding of conversion and storage phenomena at the nanoscale, improvements in the nanoscale characterization of electronic properties, and developments that enable economical nanomanufacturing of robust devices will be critical to exploiting the benefits of nanotechnology for solar energy. Product lifetime and reliability of technologies incorporating nanotechnology must also mee or exceed the performance of conventional solar technologies.

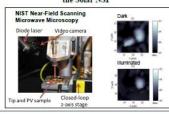
Enhance understanding of conversion and storage phenomena at the nanoscale, improve nanoscale characterization of electronic properties and help enable economical nanomanufacturing of robust devices.

- · Improve photovoltaic solar electricity generation
- · Improve solar thermal energy generation and
- · Improve solar-to-fuel conversions with nanotechnology

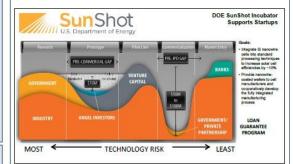
## Agencies Involved

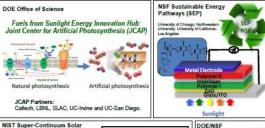
Department of Commerce (National Institute of Standards and Technology), Department of Defense, Department of Energy, the Intelligence Community, National Aeronautics and Space Administration, National Science Foundation, and U.S. Department of Agriculture (National Institute of Food and Agriculture).

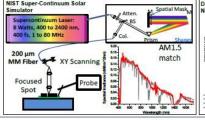
## Examples of Activities that Support the Goals of the Solar NSI

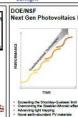


## Examples of Activities that Support the Goals of the Solar NSI





































## PRODUCTS FEATURES





Excellent high mechanical loads, certified to withstand high wind load (2400 pa) and snow load (5400 pa).



Positive power tolerance up to 3% extra output.



In-line and post EL (Electroluminescence) machines.



Excellent low light performance.



PID resistant.



Salt mist and ammonia resistant to endure coastal and agricultural environments.

## **Top** Features



25 years warranty



High Conversion Efficiency



Long life span



Greater Load Capacity



Lower Temperature



High Wattage Ratings



























# GLOBAL MAJOR FIRE PROTECTION CLIENTS





**E**xonMobil

Energy lives here

Texas-structural steel



Saudi Arabia-gland boxes. 2012



Italy-emergency circuitry. 2011 , 2013



United Kingdomemergency circuitry. 2013



Canada-structural steel2013



Canada-structural steel2013



Norway-emergency circuitry



Russia-Cable tray emergency circuitry: 2013



Italy-Emergency circuitry. 2013

+More







